



DOCKET NO.: G0631.70039 US00 *Ifar*

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: James F. Caffrey et al  
Serial No.: 10/664,349  
Confirmation No.: 4151  
Filed: September 17, 2003  
For: MEASURING CIRCUIT AND A METHOD FOR DETERMINING A CHARACTERISTIC OF THE IMPEDANCE OF A COMPLEX IMPEDANCE ELEMENT FOR FACILITATING CHARACTERIZATION OF THE IMPEDANCE THEREOF  
Examiner: Anthony Gutierrez  
Art Unit: 2857

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the 28th day of June, 2006.

*SJH*  
\_\_\_\_\_  
Steven J. Henry  
Reg. No. 27,900

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Transmitted herewith are the following documents:

Information Disclosure Statement, PTO-1449 (with foreign references & article)  
 Return Receipt Postcard

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 646-8000, Boston, Massachusetts.

No check is enclosed to cover the filing fee. If the fee is insufficient, the balance may be charged to the account of the undersigned, Deposit Account No. 23/2825. A duplicate of this sheet is enclosed.

Respectfully submitted,

*SJH*  
\_\_\_\_\_  
Steven J. Henry  
Reg. No. 27,900  
Wolf, Greenfield & Sacks, P.C.  
600 Atlantic Avenue  
Boston, MA 02210-2211  
(617) 646-8000

Docket No.: G0631.70039 US00  
Date: June 28, 2006

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: James F. Caffrey et al  
Serial No.: 10/664,349  
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DETERMINING A CHARACTERISTIC OF THE IMPEDANCE  
OF A COMPLEX IMPEDANCE ELEMENT FOR  
FACILITATING CHARACTERIZATION OF THE IMPEDANCE  
THEREOF

Examiner: A. Gutierrez  
Art Unit: 2857

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Steven J. Henry, Reg. No. 27,900

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**STATEMENT FILED PURSUANT TO THE DUTY OF  
DISCLOSURE UNDER 37 CFR §§1.56, 1.97 AND 1.98**

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, the Applicant requests consideration of this Information Disclosure Statement.

**Compliance with 37 C.F.R. §1.97**

This Information Disclosure Statement has been filed more than three months after the filing date of this application and after the mailing date of the first Office action, but before the mailing date of any final action under 37 C.F.R. §1.113, a Notice of Allowance under 37 C.F.R. §1.311, or an action that otherwise closes prosecution in this application.

The fee of \$180.00 as set forth in 37 C.F.R. §1.17(p) is enclosed.

Information Cited

The Applicant hereby makes of record in the above-identified application the information listed on the attached form PTO-1449 (modified PTO/SB/08). The order of presentation of the references should not be construed as an indication of the importance of the references.

Explanation of Non-English Language References and Remarks Concerning Other Information Cited

The following is a concise explanation of the relevance of each non-English language reference listed on the attached form PTO-1449 (modified PTO/SB/08): The two non-English language references were cited in an International Search Report (ISR) for the corresponding PCT application. Applicant's understanding of the relevance of those references is limited to such citation. The ISR was previously made of record. A patent family search reveals no corresponding English language applications.

Remarks

Documents cited anywhere in the Information Disclosure Statement are enclosed unless otherwise indicated. It is respectfully requested that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
2. The enclosed form PTO-1449 (modified PTO/SB/08) be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application;
3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the Applicant makes no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.

By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

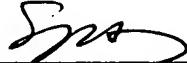
By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

Notwithstanding any statements by the Applicant, the Examiner is urged to form his or her own conclusion regarding the relevance of the cited information.

An early and favorable action is hereby requested.

Respectfully submitted,

By:

  
\_\_\_\_\_  
Steven J. Henry, Reg. No. 27,900  
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600 Atlantic Avenue  
Boston, Massachusetts 02210-2206  
(617) 646-8000

Docket No.: G0631.70039 US00

Date: June 28, 2006

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FORM PTO-1449/A and B (modified PTO-1449B/08)

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

Sheet 1 of 1

APPLICATION NO.: 10/664,349      ATTY. DOCKET NO.: G0631.70039 US00

FILING DATE: 09/17/2003      CONFIRMATION NO.: 4151

APPLICANT: James F. Caffrey et al

GROUP ART UNIT: 2857      EXAMINER: A. Gutierrez

**U.S. PATENT DOCUMENTS**

Examiner's Initials #	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or Issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
		4,526,480		Ward	07-02-1985
		6,873,916		Kolosov et al	03-29-2005

**FOREIGN PATENT DOCUMENTS**

Examiner's Initials #	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/Country	Number	Kind Code			
		EP	033 8400		Doduco GmbH + Co Dr Eugen Durrwachter	08-10-1994	N
		FR	2737923		Centre National d'Etudes Spatiales	08-16-1995	N

**OTHER ART — NON PATENT LITERATURE DOCUMENTS**

Examiner's Initials #	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
		BASU, A. et al, " 'Smart sensing' of oil degradation and oil level measurements in gasoline engines", SAE Technical Paper Series, 2000-01-1366, SAE 2000 World Congress, Detroit, MI, 3/6-9, 2000.	

EXAMINER:

DATE CONSIDERED:

<sup>#</sup> EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

\*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. \_\_\_, filed \_\_\_, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

[NOTE — No copies of U.S. patents, published U.S. patent applications, or pending, unpublished patent applications stored in the USPTO's Image File Wrapper (IFW) system, are included. See 37 CFR §1.98 and 1287OG163. Copies of all other patent(s), publication(s), unpublished, pending U.S. patent applications, or other information listed are provided as required by 37 CFR §1.98 unless 1) such copies were provided in an IDS in an earlier application that complies with 37 CFR §1.98, and 2) the earlier application is relied upon for an earlier filing date under 35 U.S.C. §120.]